

Edexcel IAL Physics

Specification content changes

| level | Topic | Spec points | New content included | Content moved between units | Content not included |
|-------|------------------------------------|-------------|--|---|---|
| AS | mechanics | 4 | Recognise vector notation | | |
| AS | Mechanics | 14 | | Conservation of momentum in one direction | |
| AS | Mechanics | 30 | | Efficiency equation | |
| AS | Materials | | | | Fluid flow diagrams, streamline flow Definitions of mechanical properties such as brittle, ductile, hard, malleable, tough |
| AS | Waves and Particle Nature of Light | 42 | Use of the equation for the speed of a transverse wave on a string | | Identify and describe applications of the regions of the electromagnetic spectrum. Explain how different media affect the transmission/reflection of waves |
| AS | Waves and Particle Nature of Light | 44 | | Radiation flux is replaced by Intensity | |
| AS | Waves and Particle Nature of Light | 50 51 | Use of Huygen's construction Diffraction $n\lambda = d\sin\theta$ | | |
| AS | Waves and Particle Nature of Light | 54 | | Use of de Broglie equation | |
| AS | Electric Circuits | 68 | Derivation of equations for resistors in series and parallel | | |

| | | | | | |
|----|------------------------------|-------|--|--|--|
| AS | Electric Circuits | 80 | Conduction models and the LDR | | |
| AL | Further Mechanics | 89 | Derive by use vector diagrams, the equations for centripetal acceleration | De Broglie equation and conservation of momentum moved to AS | |
| AL | Nuclear and Particle Physics | 121 | | More detail added about the standard model | |
| AL | Nuclear and Particle Physics | 123 | Conservation of Baryon and lepton numbers | | |
| AL | Electric and Magnetic Fields | 98.98 | Electric potential and equipotential lines | | |
| AL | Thermodynamics | 125 | Specific Latent heat | | |
| AL | Thermodynamics | 132 | Derive and use $\frac{1}{2} m \langle c \rangle^2 = \frac{3}{2} kT$ | | |
| AL | Nuclear Decay | 135 | Links fission and fusion to BE/nucleon graph | | |
| AL | Oscillations | 145 | Use of the equations for a simple harmonic oscillator $T = 2\pi\sqrt{m/k}$ and $T = 2\pi\sqrt{l/g}$ | | |
| AL | Astrophysics and Cosmology | 158 | Use of $V_{grav} = \frac{-Gm}{r^2}$ For a radial gravitational field | | |
| AL | Astrophysics and Cosmology | 164 | | Flux replaced by intensity | |